

Amendment to the Claims

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1. (Original) A method for detecting abnormalities in input data to a financial risk management system, the method comprising:
- (a) receiving a set of input data to a financial risk management system;
 - (b) receiving one or more historical values, each historical value representing a previous set of input data;
 - (c) calculating the likelihood that changes to the set of input data are the result of one or more errors.
2. (Original) The method of claim 1, wherein the input data includes data feeds from one or more data processing systems.
3. (Original) The method of claim 1, wherein the input data includes data calculated by a financial risk management system.
4. (Original) The method of claim 1, further comprising:
- (d) displaying a result based on the calculated likelihood that changes to the set of input data are the result of one or more errors.
5. (Original) The method of claim 4, wherein displaying a result includes displaying an icon indicative of the degree of likelihood that changes to the set of input data are the result of one or more errors.
6. (Original) The method of claim 1, wherein calculating the likelihood that changes to the set of input data are the result of one or more errors comprises:
- (i) calculating the information content of the input data; and
 - (ii) performing a statistical analysis of the calculated information content relative to the one or more historical values to determine the likelihood that changes to the input data are the result of one or more errors.

7. (Original) The method of claim 6, wherein calculating the information content of the input data is performed by calculating the Shannon entropy of the input data.
8. (Original) The method of claim 6, wherein the statistical analysis is performed using non-parametric resampling statistics.
9. (Original) The method of claim 6, wherein the statistical analysis is performed using Bayesian statistics.
10. (Original) The method of claim 6, wherein the statistical analysis is performed using parametric statistics.
11. (Original) A system for detecting abnormalities in input data to a financial risk management system, the system comprising:
a data processing server that receives a set of input data;
a computer storage device for storing one or more historical values, each historical value representing a previous set of input data; and
one or more central processing units coupled to the computer storage device, the one or more central processing units calculating the likelihood that changes to the set of input data are the result of one or more errors.
12. (Original) The system of claim 11, wherein the input data includes data feeds from one or more data processing systems.
13. (Original) The system of claim 11, wherein the input data includes data calculated by a financial risk management system.
14. (Original) The system of claim 11, further comprising:
a graphical user interface that displays a result based on the calculated likelihood that changes to the set of input data are the result of one or more errors.

15. (Original) The system of claim 14, wherein displaying a result includes displaying an icon indicative of the degree of likelihood that changes to the set of input data are the result of one or more errors.

16. (Original) The system of claim 11, wherein calculating the likelihood that changes to the set of input data are the result of one or more errors comprises:

- (i) calculating the information content of the input data; and
- (ii) performing a statistical analysis of the calculated information content relative to the one or more historical values to determine the likelihood that changes to the input data are the result of one or more errors.

17. (Original) The system of claim 16, wherein calculating the information content of the input data is performed by calculating the Shannon entropy of the input data.

18. (Original) The system of claim 16, wherein the statistical analysis is performed using non-parametric resampling statistics.

19. (Original) The system of claim 16, wherein the statistical analysis is performed using Bayesian statistics.

20. (Original) The system of claim 16, wherein the statistical analysis is performed using parametric statistics.

21. (Original) A system for detecting abnormalities in input data to a financial risk management system, the system comprising:

- a means for receiving a set of input data to a financial risk management system;
- a means for receiving one or more historical values, each historical value representing a calculated content from a previous set of input data; and
- a means for calculating the likelihood that changes to the set of input data are the results of one or more errors.

22. (Original) The system of claim 21, further comprising:
a graphical user interface means for displaying a result based on the calculated likelihood that changes to the set of input data are the result of one or more errors.
23. (Original) A method for detecting abnormalities in data related to a financial risk management system, the method comprising:
(a) receiving a set of data;
(b) receiving one or more historical values, each historical value representing a previous set of data;
(c) calculating the likelihood that changes to the set of data are the result of one or more errors.
24. (Original) The method of claim 23, wherein the set of data includes input data to a financial risk management system.
25. (Original) The method of claim 23, wherein the set of data includes data calculated by a financial risk management system.
26. (Original) The method of claim 23, wherein each value of the one or more historical values represents the information content of a previous set of data.
27. (Original) The method of claim 23, wherein calculating the likelihood that changes to the set of data are the result of one or more errors comprises:
(i) calculating the information content of the data; and
(ii) performing a statistical analysis of the calculated information content relative to the one or more historical values to determine the likelihood that changes to the data are the result of one or more errors.

28. (New) A method to identify potential errors in data input into a financial risk assessment process, the method comprising:

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determining a first characteristic of a historical financial risk assessment data set, the first characteristic being a function of at least the entropy of the set;
determining the first characteristic of a current financial risk assessment data set,
determining a likelihood that the current data set is from the population of the historical data set based at least in part on the first characteristics of the current and historical sets.
